

METHOD FOR PREPARING A DIALKYL CARBONATE, AND ITS USE IN THE PREPARATION OF DIARYL CARBONATES AND POLYCARBONATES

Abstract of Disclosure

Unexpected corrosion of downstream sections of a dialkyl carbonate manufacturing apparatus has been traced to alkyl chloroformate impurities, which slowly decompose to yield hydrochloric acid. An improved process and apparatus for dialkyl carbonate synthesis reduce corrosion by physically removing or chemically decomposing the alkyl chloroformate impurities within the corrosion-resistant upstream sections of the apparatus.

Figures

Figure 1: Schematic diagram of the experimental setup. The setup includes a laser source, a beam splitter, a lens, a sample, and a detector. The laser beam is split into two paths: one path goes through the lens and the sample, and the other path goes through the lens and the detector. The detector measures the intensity of the beam after it has passed through the sample.